

Date: Tue, 24 Aug 93 14:29:56 PDT
From: Info-Hams Mailing List and Newsgroup <info-hams@ucsd.edu>
Errors-To: Info-Hams-Errors@UCSD.Edu
Reply-To: Info-Hams@UCSD.Edu
Precedence: Bulk
Subject: Info-Hams Digest V93 #1008
To: Info-Hams

Info-Hams Digest Tue, 24 Aug 93 Volume 93 : Issue 1008

Today's Topics:

Aircraft Headset interface?
Any fix for a locked-up MT-1000 ?
A strange thing that happens when you are learning code
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Optoelectronics Spy Equipment
Power supply safety
recommendations for 2m HT's please?
Roanaoke DF evaluation?
RTTY at 170 Hz shift, why?
SWR Meters
ticket- less than 11 weeks...
Wanted: Ham Software

Send Replies or notes for publication to: <Info-Hams@UCSD.Edu>
Send subscription requests to: <Info-Hams-REQUEST@UCSD.Edu>
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Info-Hams Digest are available
(by FTP only) from UCSD.Edu in directory "mailarchives/info-hams".

We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

Date: 24 Aug 93 05:46:58 GMT
From: kb2ear@RUTGERS.EDU
Subject: Aircraft Headset interface?
To: info-hams@ucsd.edu

Hi, I have an aircraft headset that I would like to interface with my
radios. I need to know if and where I can find the mic connector used
on the headset either in an inline config or something I can mount in a

box. The headphone portion seems to work in a standard 1/4 inch socket. What will I need to supply to the Mic? Any voltage? Has anyone interfaced there radios to there headsets in this way?

Please reply via email as I do not get a chance to read this group often.

Thanks, 73,

--

Scott R. Weis KB2EAR, EMT-A
Inernet: kb2ear@kb2ear.ampr.org
Packet: KB2EAR@KB2EAR.NJ.USA
Snail Mail: 10 Palmer Rd., Kendall Park, NJ, 08824-1228
Phone: +1 908 297 0469

Date: 24 Aug 93 11:36:49 GMT
From: news-mail-gateway@ucsd.edu
Subject: Any fix for a locked-up MT-1000 ?
To: info-hams@ucsd.edu

I have a Motorola MT-1000, VHF 2W 99 ch. HT. After programming it last time, I accidentally put in a freq out of range and when I toggled past that channel, the HT locked up on me. I have no access to the radio through the RIB and software either as an error message comes up.

Anyone know how to reset the HT ? Hope I don't have to bring it in to Motorola for repair - they're not cheap !

Please post any info to:
rharel%fab8@sc.intel.com

Thanks es 73,

Rich

WB2JBS

Date: Tue, 24 Aug 1993 14:48:03 GMT
From: pravda.sdsc.edu!news.cerf.net!usc!sol.ctr.columbia.edu!news.unomaha.edu!cwis.unomaha.edu!ncc2001@network.ucsd.edu
Subject: A strange thing that happens when you are learning code
To: info-hams@ucsd.edu

Sounds like when my wife first got addicted to tetris on the gameboy. She said she knew it was time to stop playing when she began to dream it (and in black and white no less!)

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| Michael Fortner    N0YBC      * "I've got all this love to give and |
| ncc2001@cwis.unomaha.edu      * so far all I have is my ham radio" |
| "What do you mean, pop quiz?" * -Selma Bouvier                      |
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Date: 24 Aug 1993 15:04:29 GMT
From: noc.near.net!howland.reston.ans.net!usenet.ins.cwru.edu!
cleveland.Freenet.Edu!cr719@uunet.uu.net
Subject: CAP ftp site
To: info-hams@ucsd.edu

In part two of rec.radio.amateur.misc's FAQ, there's a question that says, "Are there any news groups for CAP?" Well, the answer mentions a ftp site where you can get CAP-related files. It says that you can get them sunburn.cps.udayton.edu in the directory pub/capital.

The problem is that I can't seem to log into the ftp site. It does NOT recognize the user anonymous or ftp. Does anybody know what the proper login/USER is? Or maybe the files have been moved to another site.

If anyone has any information on this please e-mail me AND post a reply article to this newsgroup.

Thank you.

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                | "It is not enough to have a good mind.
Daniel E. Lee   | The main thing is to use it well."
                | -- Rene' Descartes
cr719@Cleveland.Freenet.Edu
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Date: 24 Aug 93 20:49:23 GMT
From: news-mail-gateway@ucsd.edu
Subject: Help with Kenwood TS-820S
To: info-hams@ucsd.edu

I am in the need of some assistance. I have a Kenwood TS-820S that doesn't seem to be generating enough RF power output. I have replaced the tubes with a matched pair of GE 6146Bs which has helped a bit, but it still seems to not be generating the punch that I think that it should.

First off, I have to admit that I do not have any test equipment except for a cheap multi-meter and my grasp of general electronics is

pretty limited(I understand the theory, just have trouble with application).

Here is my dilemma. After following the proper tune up procedures described in the manual into a dummy load I am observing the following results. On CW on all Novice sub-bands with a plate current at the required 200ma I get about 60 watts out measured on the SWR/Watt meter. This seems a bit low, but, I have not had any problems contacting any station that I can hear via CW. On 10 meter phone(which seems to be where the problem lies) I only get about 30-40 watts out at voice peaks. I've tried cranking the CAR and MIC gain controls up all the way, but, that only yields about 5 more watts out.

Anybody have any experience with this rig that can tell me if these numbers are reasonable and if not what steps I could take to remedy the problem?

Tnx es 73s - Warren (KD4YRN)

--

Warren E. Lewis
Graphics Division
SAS Institute Inc.
Cary, NC

saswel@unx.sas.com
(919) 677-8001 x6542
PP-ASEL
KD4YRN DOD#0021

Date: 24 Aug 93 12:58:52 GMT
From: news-mail-gateway@ucsd.edu
Subject: HF Guide
To: info-hams@ucsd.edu

I've been looking in vain for a book which will describe the various bands from the point of view of an experienced operator. I.e. describing each band in terms of it's characteristics during each part of the day, during each season, explaining each section of the band in detail. For instance it might describe parts of 20 m warning about the idiots who use blue language and name calling around 14.312 and when they are likely to be on, It might describe when the band opens up and when it shuts down in different seasons. Where to find dx, where to call for a rag chew. It might describe the various DX nets, the O.F. ragchew nets which don't mind newcomers checking in and those that don't.

I know you eventually learn all this by operating, but I find myself hanging out on one band and not really using the others because I'm not sure where to go and too lazy to spend the effort to learn each band. If there isn't a book like this, I think this would be a welcome addition to what's out there.

73 de KD1PF

--

Stephen P. Baker	phone: (508) 856-2625
Lecturer in Biostatistics	(508) 856-3131 fax
Department of Academic Computing	(413) 253-3923 home
University of Massachusetts Medical School	e-mail: sbaker@umassmed.ummed.edu
55 Lake Avenue North	-. -.. .---- .--. ...-
Worcester, MA 01655	

Date: 24 Aug 1993 12:18:34 GMT
From: pravda.sdsc.edu!news.cerf.net!usc!howland.reston.ans.net!
usenet.ins.cwru.edu!cleveland.Freenet.Edu!ak667@network.ucsd.edu
Subject: How Long?
To: info-hams@ucsd.edu

In a previous article, feng@jedi.eng.uci.edu (Feng Liu) says:

>In article <25b8cn\$b09@lester.appstate.edu> RW884@CONRAD.APPSTATE.EDU
>(Watkins, Robert Shawn) writes:
>> Does anyone know how long it is currently taking to get tickets back
>from
>> the FCC? I took my Tech no code on July 17th and they told me 6-8
>weeks.
>> I've since heard as long as 12. Can someone tell me how long before I
>should
>> start looking for it please?
>
>I took mine on June 8 and is still waiting. Somebody else on the net
>told me ARRL is sending cards to new examinees telling them to wait for 12
>weeks after their tests.

The best thing to do is Don't. I Didn't look in my mail box for it, i didn't hope for it. 3 months went by and i had it. I was happy the day it came, but once it comes its here and you feel like, "Gawd, i waited long enough".. heh But if you ask me, just don't be in such suspense, it will be tehre when it is..

>Welcome to the club and 73's.

Just something that i was corrected on here. The correct term is not 73's because

1. Its not plural.
2. Its not possessing anything
3. The correct way to say it is "Seven Three", not "Seventy-Three"

--

- N8YNR (Amateur Radio) - | Jeff S. Garvas | Snail mail all Hate Mail,
- Licensed to transmit - | P.O. Box 25326 | Donations, Anonymous "Hi!"
146.82 (Cleveland Area Rptr) | Garfield Hgts. OH | <=-----
ak667@po.cwru.edu (InterNet) | 44125 | Help! My brain dumped core

Date: 24 Aug 93 12:13:22 GMT
From: news-mail-gateway@ucsd.edu
Subject: Optoelectronics Spy Equipment
To: info-hams@ucsd.edu

The Optoelectronics ad on page 157 of Sept. QST contains all manner of electronics seemingly unrelated to amateur radio. The best I can make out from their obtuse ad copy, they're selling stuff used to eavesdrop on cellular phones. For instance, the Model CF802 is described as an "835MHz +/- 10Mhz filter/amplifier for use with near field instruments such as the Model R10 Interceptor ... to extend the pick up distance [up to 750 ft.] by limiting the bandwidth and adding amplification". The Model R10 is used to "Decode & Display CTCSS, DTMF or DCS & DTMF simultaneously".

Frankly I'm surprised that QST would accept an ad such as this. It belongs in Popular Mercenary and its ilk not in ham radio.

But I'd like someone to convince me I'm wrong. Is there a legitimate use for these devices?

AA5UO.kris
mrz@aud.alcatel.com
Richardson, TX

Date: 24 Aug 93 14:13:49 GMT
From: news-mail-gateway@ucsd.edu
Subject: Power supply safety
To: info-hams@ucsd.edu

There was a posting a few weeks ago about use of the ground screw on a Drake AC-4 power supply. Since I had a problem posting at that time, here is my reply again.

The Drake AC4 supply was probably designed before the appropriate UR (UL component recognition) approvals existed. However equipment of new design that uses a class I power supply (not double insulated) with a metal case and has hazardous voltages inside (ac

line voltage is considered hazardous) should carry a UR approval if it is to be used or sold to be used with another unit, e.g. a radio transceiver. Utility supplies like the Astron line should be UL approved (no Astron units are to my knowledge carry any approvals from a recognized testing agency). To get a UL or UR approval for the AC-4 today, among other things the power cord would have to have an integral grounding means (three wire cord). The external ground screw is not suitable in lieu of this required ground. So if you want to buy only UL listed power supplies as a stand alone unit and that is a requirement for your purchase to ensure that a reasonable level of safety standards have been met, then don't buy un-certified equipment. After witnessing the resultant aftermath of a fire inside an Astron un-certified supply, I have since refused to bring anything into my home (other than stuff I build myself) that isn't carrying some safety approval. Some municipalities do not permit stores to sell any plug/cord appliances that don't carry safety approvals. The end result is that if injury or fire results, the offending vendor may have a liability problem, including the store that sold the unit.

To answer the question about the AC-4, since it was made prior to the current regulatory requirements for consumer safety, it is not improper to use, however it probably doesn't comply with current standards for component supplies (UR recognition).

Seth KC2WE; The opinions are my own and not those of any other party.

Date: 23 Aug 1993 08:23:25 +1000
From: munnari.oz.au!ariel.ucs.unimelb.EDU.AU!werple.apana.org.au!
lsupoz.apana.org.au!sleeper!orb.apana.org.au!orb.apana.org.au!not-for-
mail@network.ucsd.edu
Subject: recommendations for 2m HT's please?
To: info-hams@ucsd.edu

In <1993Aug20.124345.28826@ke4zv.uucp> gary@ke4zv.uucp (Gary Coffman) writes:

>The Icom IC2 and IC4 are wonderful radios. I owned both and they're
>virtually indestructable. The newer G line is good too. Sadly their
>micro-mini pocket scanners aren't so good. Nor have they made an
>adequate dual bander since the IC32.

I know someone who has an IC-R1. I prefer my Alinco DJ-X1 over it, mainly due to the packaging differences and durability. Performance-wise they seem roughly the same.

>The Yaesu FT470 remains one of the most ergonomic dual band radios
>available. The newer FT530 has some nice features, but I'm staying
>with the 470 until something *really* better comes along. Since it's
>my current carry radio, you can surmise I think it's the best value.

The FT-26 is getting much publicity here. I know people who swear by Yaesu gear, and others who despise it! There is a large retail consumer electronics chain (Dick Smith Electronics, who were an electronics enthusiasts store until a supermarket chain bought them!) that is the local dealer for Yaesu stuff, so it's available everywhere (in Oz), which I guess is one advantage.

>The Alinco HTs seem rugged, but not quite as polished. I've played
>with the 580, it's small and functional, but not as nice as the
>Yaesu.

I received an email reply about the 580, and the impression gained from that message is of the 580 being quite good. I think Alinco have only to rework some of the methods of operation of their radios and they will be a serious competitor to the 'big three'.

>Standard radios are gaining a good reputation, but they're a bit
>pricey. I haven't played much with them.

We don't hear much about these here. I think there have been a few reviews over the years that I have been spotting radio mags, but that's all. I have no idea what their model range is like, or how the features and pricing compare to other manufacturers.

>The stereo maker's VHF/UHF radios aren't worth using to chock a truck.
>They're fragile, run hot, and are prone to intermod. Their user interface
>is also bizarre. I guess if all you've ever had was K*wood, you'd figure
>it out.

We have Kenwood UHF radios at work (freight train depot), and they are absolutely cr\$%py, useless pieces of, dare I say it, junk. I wonder when Sony, Pioneer, etc. will start making radios for the amateur market!?!

>And in your part of the world, don't ignore
>Tait. They make fine rugged radios.

Tait? This is one I haven't heard of.

--

Craig Dewick (craig@orb.apana.org.au). System Operator of Possum Power Tank BBS. An information exchange exclusively supporting Australian railway researchers, enthusiasts, modellers, and people working in the industry.
(02)544-1060 (V22 - V32). >>> Dial, hang up after two rings, then dial again <<<

Date: 24 Aug 1993 15:19:25 GMT
From: news.graphics.cornell.edu!newsstand.cit.cornell.edu!
newsstand.cit.cornell.edu!usenet@tcgould.tn.cornell.edu
Subject: Roanaoke DF evaluation?
To: info-hams@ucsd.edu

In article <106155@donald.WichitaKS.NCR.COM> ken thompson,
kthompso@donald.WichitaKS.NCR.COM writes:
>The "dopplers" (they really work on instantaneous phase changes) only do
>well with strong, vertical signals. A 4-element quad is much better
overall.

I don't know about that Donald - I lived in Rochester NY when the guys
who wrote the original QST article that the Roanoake box is based on
built theirs for the monthly fox hunts. Once they got the bugs out, I
don't think they ever lost a hunt. It may not be the perfect solution in
all situations, but it sure seemed to work for them! (I think the group
eventually changed the rules to put the doppler stuff in a separate
category so someone else could win once in a while) Particularly nice is
the ability to use it while in motion, where the multipath and other
stuff appears as 'noise' on the display while the direct signal appears
as the steadier source. I suspect that these days, coupling one of them to
a laptop and doing some sort of histogram on the signal position would
make that real obvious.

Anyway, *I'm* definately interested in building one of them, in my
copious free time... :-)

73 de Kevin, WB2EMS (fkf1@cornell.edu)

Date: 24 Aug 93 15:31:09 GMT
From: news-mail-gateway@ucsd.edu
Subject: RTTY at 170 Hz shift, why?
To: info-hams@ucsd.edu

This is a reply to an old question posted a few weeks ago and I don't
recall the exact subject wording.

.....
The problem of HF RTTY frequency shift standards and usage is
probably a combination of engineering criteria, practical
application and some arbitrary selection. When I was in the Army
(1969-72) assigned to the US Army Transmitter site in the Canal
Zone, we used 10 and 40 KW PEP transmitters on three curtain

rhombics. When propagation was good, we probably had a signal to noise ratio of better than 30 dB to the distant end receiver site. The military did use multi channel telegraph as it was called with a 42.5 +/- Hz shift with a range of 85 Hz shift. These transmissions were made with ISB (independent sideband) and inserted carrier -20 dB down. The distant end locked on to the reduced carrier signal. Besides, we might have a couple HZ drift in a 24 hr. period (probably less than 2 Hz). There was no problem decoding 42.5 Hz shift at 74.5 baud. Because of the fact that the receive side locked on to the pilot carrier, very narrow shifts were practical. This enabled the military to transmit multiple rtty channels on the same signal (I think there were 24 channels of teletype traffic).

The problem with using narrow shift is that due to unpredictable S/N (when your not using a 40 KW transmitter) and taking into consideration Shannon's Law regarding bandwidth vs. signal rate (baud rate) there is a practical limit to the fsk speed. If the S/N is poor, then reliability even at 170 Hz can be a problem. In the amateur radio world we don't send a 20 dB down pilot tone and we don't run 10 KW or more for better S/N. So in the old days of single channel radio teletype, to ensure reliable communications in a noisy environment when frequency stability was also not as good as today, 850 Hz became the standard. A analysis of an 850 Hz shift signal at 45.5 or 50 baud, results in a bandwidth approx. occupied by a single nominal HF voice channel. As receiver and transmitter stability improved over the years, lower shifts were selected to reduce occupied bandwidth.

The value of 170 Hz was standardized by the Navy as a shift (a neat multiple of the old military 42.5 Hz shift system). 170 Hz was selected as it met the criteria for a combination of the S/N needs on single channel HF RTTY transmissions, state of the art in transmitter/receiver stability and the need to transmit higher baud rates. If they tried to send higher baud rates which are common today, at 42.5 Hz shift the transmission would be garbled due to intersymbol interference within the FSK envelope. Also, when selecting a new single channel radio teletype frequency shift standard the military did not want to always count on having enormous amounts of RF power and antenna gain to have very high S/N ratios.

Seth T. KC2WE: The opinions are mine and not those of any other party.

Date: 24 Aug 93 19:39:33 GMT

From: ogicse!hp-cv!sdd.hp.com!col.hp.com!news.dtc.hp.com!srngenprp!
alanb@network.ucsd.edu
Subject: SWR Meters
To: info-hams@ucsd.edu

"Eleen N. Kamas" (ee2g+@andrew.cmu.edu) wrote:

:
: I have a SWR meter that was designed to be used for HF frequencies.
: Is it possible to modify it to work on 2 meters?
:

Try it! I have found that many of the cheap SWR meters work passable
well on 2 meters as-is. If it reads close to 1:1 into a good 50-ohm load,
and reads infinity into an open circuit, then it is probably usable.

AL N1AL

Date: Tue, 24 Aug 1993 14:51:34 GMT
From: cs.utexas.edu!math.ohio-state.edu!howland.reston.ans.net!
sol.ctr.columbia.edu!news.unomaha.edu!cwis.unomaha.edu!ncc2001@uunet.uu.net
Subject: ticket- less than 11 weeks...
To: info-hams@ucsd.edu

73's

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| Michael Fortner N0YBC * "I've got all this love to give and |
| ncc2001@cwis.unomaha.edu * so far all I have is my ham radio" |
| "What do you mean, pop quiz?" * -Selma Bouvier |

Date: 24 Aug 93 13:07:53 GMT
From: ogicse!uwm.edu!spool.mu.edu!howland.reston.ans.net!usenet.ins.cwru.edu!
cleveland.Freenet.Edu!ak667@network.ucsd.edu
Subject: Wanted: Ham Software
To: info-hams@ucsd.edu

WANTED!

Any & All Ham radio related software for the Apple IIgs, IIc, or IIe..

NOT The macintosh...

Jeff

--

- N8YNR (Amateur Radio) - | Jeff S. Garvas | Snail mail all Hate Mail,
- Licensed to transmit - | P.O. Box 25326 | Donations, Anonymous "Hi!"
146.82 (Cleveland Area Rptr) | Garfield Hgts. OH | <=-----
ak667@po.cwru.edu (InterNet) | 44125 | Help! My brain dumped core

Date: Tue, 24 Aug 1993 14:59:01 GMT
From: sdd.hp.com!cs.utexas.edu!csc.ti.com!tilde.csc.ti.com!m2.dseg.ti.com!ernest!
cmptrc!carter@network.ucsd.edu
To: info-hams@ucsd.edu

References <250043\$h3e@charm.magnus.acs.ohio-state.edu>,
<CC0r4s.FCu@cbnewsm.cb.att.com>, <252cge\$r9p@access.digex.net>~8
Subject : Re: A strange thing that happens when you are learning code

In article <252cge\$r9p@access.digex.net> archer@access.digex.net (hunter) writes:
>That's O.K. if your tastes run more toward popular music. There's a song
>by the scorpions (cant remember the title) that repeats _ .._ .._ .._
>in several spots. And one by ELO that also seems to send code in several
>spots (again, cant remember the song, or pattern).

Don't forget the Rush tune titled "YYZ" which is nothing but an investigation
into the rhythm -.- -.- -.-..
(YYZ is the aero beacon for their home town).

Cheerio!

--

Carter R. Bennett, Jr. - Scientist | "Tai-Kwon Leep is not a path to a door,
carter@scilab.lonestar.org - home | but a road leading forever to the
carter@cmptrc.lonestar.org - work | horizon." - Li Fong
KI5SR | "Kinda like UUCP mapping." - Carter Bennett

Date: Tue, 24 Aug 1993 14:53:28 GMT
From: sdd.hp.com!cs.utexas.edu!csc.ti.com!tilde.csc.ti.com!m2.dseg.ti.com!ernest!
cmptrc!carter@network.ucsd.edu
To: info-hams@ucsd.edu

References <24ud34\$e44@hpscit.sc.hp.com>, <CBzCww.Ino@srgenprp.sr.hp.com>,
<1993Aug19.140224.1093@newshost.lanl.gov>er
Subject : Re: A strange thing that happens when you are learning code

In article <1993Aug19.140224.1093@newshost.lanl.gov> tjf@beta.lanl.gov (Tom J
Farish) writes:
>For example on our Local AM Newsradio, the news summaries are

>preceeded with "r /" (it has a nice rythm ._. _.._.).

If you have a National Public Radio affiliate, you can hear them begin their morning program with a piano playing "NPR NPR NPR" in a major-seventh chord. Actually very catchy.

Cheerio!

--

Carter R. Bennett, Jr. - Scientist	"Tai-Kwon Leep is not a path to a door,
carter@scilab.lonestar.org - home	but a road leading forever to the
carter@cmptrc.lonestar.org - work	horizon." - Li Fong
KI5SR	"Kinda like UUCP mapping." - Carter Bennett

End of Info-Hams Digest V93 #1008
